				Title of Research Project or Title of
Mentor School	Student Name	Student Major	Mentor Name	Paper/Poster
COA Architecture	Smruti Keshani	Architecture	Matthew Swarts	On the Virtualization of Environment and Behavior of Nurses in Hospital Layouts in the Evaluation of Overall Walking Distance
COC	Siliuti Kesilalii	Architecture	Iviattiew Swarts	
Computer Science	Sterling Peet	Computer Science	Alexander Gray	MLPACK: A Scalable C++ Machine Learning Library
Computer Science	Daniel Castro	Computer Science	Irfan Essa	A Behavioral Imaging approach to Characterize Progression of Mild Cognitive Impairment (MCI) and Alzheimer's disease (AD) by Analysis of Walking Motions
				a context-aware "universal" security policy scheme for the Android platform that is practical, flexible,
Computer Science	Suk Hwan Hong	Computer Science	Santosh Pande	and usable
Computer Science	Urvashi Goverdhan	Computer Science	Santosh Vempala	Indian National Autism Registry Geospatial Partitioning of Popular
Computer Science	David Emmel	Computer Science	Umakishore Ramachandran	Videos on the Cloud Algorithms for 3-D Geometric Bin
Computer Science	Zhongtian Jiang		Tetali Prasad	Packing Algorithms for 3-D Geometric Bin
Computer Science	Kyle Davis		Tetali Prasad	Packing
Aerospace Engineering	Hasan Tawab	Aerospace Engineering	Amy Pritchett	Design and Evaluation of Pilot Interface for Horizontal Maneuvers to Avoid Traffic Collisions
Aerospace Engineering	David Bertram	Aerospace Engineering	Lieuwen Tim	Improvement of Data Acquisition Systems for Turbulent Flame Speed Experimental Facility
				AERODYNAMIC CONTROL OF INFLATABLE WING AIRCRAFT USING
Aerospace Engineering	Sarah Brown	Aerospace Engineering	Mark Costello	FLAP SPOILER
Aerospace Engineering	John Forbes	Aerospace Engineering	Tim Lieuwen	Upgrades to the High Pressure Turbulent Flame Test Facility at the Ben T. Zinn Combustion Laboratory
Aerospace Engineering	Kelvin Murphy	Mechanical Engineering	Tim Lieuwen	Flame Imaging and Emission of High- Pressure Low Swirl Burner
Aerospace Engineering	Ramon Romero	Chemical Engineering	Timothy Lieuwen	Characteristics of Highly Stretched Premixed Syngas Flames
Biomedical Engineering	William Sessions	Biomedical Engineering	Ajit Yoganathan	Papillary Muscle Sandwich' or 'Left Ventricular Shish-Kabob': Ideal Repairs for a Failing Left Heart? In Vitro Investigation of Energy Loss in the Total Cavo-Pulmonary
Biomedical Engineering	Harish Srinimukesh	Biomedical Engineering	Ajit Yoganathan	Connection Anatomies at Exercise Conditions The effects of transcatheter valve
Biomedical Engineering	Grant Stearns	Biomedical Engineering	Ajit Yoganathan	placement and sizing on function and durability
Biomedical Engineering	Anum Syed	Biomedical Engineering	Gang Bao	Tracking Human Cardiac Subtype Specification using Molecular Beacons
	Needa Virani	Biomedical Engineering	Gang Bao	Surface Modification of Superparamagnetic Iron Oxide Nanoparticles for Atherosclerosis
Biomedical Engineering	Weeda Virain	biomedical Engineering	Curis Date	Plaque Imaging Effects of Electrical and Optical Stimulation on the Thalamocortical
Biomedical Engineering	William Hendry	Biomedical Engineering	Garrett Stanley	Network in the Anesthetized Rodent
Biomedical Engineering	Melissa Puntkattalee	Biochemistry	Garrett Stanley	Neural Activity in a Two Deflection Whisker Task in the Behaving Animal The Role of Shear Stress on
Biomedical Engineering	Shuntol Holloway	Biomedical Engineering	Hanjoong Jo	Thrombospondin-1 Expression in Human Aortic Valve Endothelium Postural Stability in Animals of Different Sizes, Shapes, and Neural
Biomedical Engineering	Harrison Bartlett	Biomedical Engineering	Lena Ting	Conduction Velocities Computational Modeling of S1P
Biomedical Engineering	Binbin Chen	Biomedical Engineering	Manu Platt	Pathway Network in Sickle Cell Disease Mass Spectrometry Analysis of
Biomedical Engineering	Connor Crowley	Biochemistry	Michelle LaPlaca	Mass Spectrometry Analysis of Traumatic Brain Injury
Biomedical Engineering	Gerina Kim	Biomedical Engineering	Ravi Bellamkonda	Nanofiber-based Tumor Migration for Glioblastoma Multiforme
Biomedical Engineering	Robert Kretschmar	Biomedical Engineering	Ravi Bellamkonda	Functional testing of electrodes in vivo and in vitro to validate hollow cortical electrode design
Biomedical Engineering	Michael Merritt	Biomedical Engineering	Shella Keilholz	Evaluating the effectiveness of transcranial direct current stimulation using fMRI

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Biomedical Engineering	Laura Tucker	Biomedical Engineering	Thomas Barker	Characterization of fibrin probes for cardiovascular disease imaging applications
Diomedical Engineering	Eddid Tucker	Diometrical Engineering	montes barner	Influencing Encapsulated Stem Cell
Diamodical Engineering	Mahamad Ali Naiia	Diamodical Facinaceins	Todd MaDouitt	Factor Secretion through Hypoxic
Biomedical Engineering	Mohamad Ali Najia	Biomedical Engineering	Todd McDevitt	Conditioning Synthesis of Gold Nanocages for
Biomedical Engineering	Ant Yucesoy	Biomedical Engineering	Younan Xia	Cancer Theranostic Applications
				Design of Superhydrophobic Paper
Chemical and Biomolecular Engineering	Sarah Roethel	Materials Science & Engr	Dennis Hess	Surfaces with Acetylene Plasma Enhanced Etching and Deposition
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Chamiles I and Biomedia and a Facility of	Canalista a Charle	Chamical and Discussion For	India Channaian	Investigating the Role of Fiber Length
Chemical and Biomolecular Engineering	Caraniine Stark	Chemical and Biomolecular Eng	Julie Champion	on Phagocytosis and Inflammation Drug Delivery Using Laser Activated
Chemical and Biomolecular Engineering	Lara Tucci	Chemical and Biomolecular Eng	Mark Prausnitz	Carbon Nanoparticles
				Metabolites as Biomarkers for
				Lobomycosis in Bottlenose Dolphins (Tursiops truncatus) from the Indian
Chemical and Biomolecular Engineering	Lisa Dinh	Biochemistry	Mark Styczynski	River Lagoon, Florida
<u> </u>		,		Role of Focal Adhesions in the
				Inverse Response of Cancer Cells
Chemical and Biomolecular Engineering	Jason Jandoli	Biomedical Engineering	Michelle Dawson	from Different Sources to Varying Substrate Rigidity
Chemical and Biomolecular Engineering		Chemical Engineering	Sven Behrens	Colloidal Sand Castles
				Interface Shear Strength
				Characterization of Geomembranes and Geotextiles, Specifically in
				Determining Mitigation Techniques
Civil & Environmental Engineering	Brett Reichard	Civil Engineering	David Frost	for Landfill Liner Degradation
				Determination of microbial metabolic effects on allelochemical
				interactions between festuca rubra
Civil & Environmental Engineering	James Kipp	Environmental Engineering	Jim Spain	commutata and lactuca sativa in soil
				ntegrating RFID Tracking Technology
				and Entrance Portals for Increased Construction Site Safety and
Civil & Environmental Engineering	Audrey Shaak	Civil Engineering	Jochen Teizer	Productivity
				An Algorithm for Leading Indicator
				Data Collection and Analysis Using Proximity Warning and Alert
Civil & Environmental Engineering	Jeremy Wetherford	Civil Engineering	Jochen Teizer	Technology
<u> </u>	,			A Network Security Attack
Floring 9 Community Foreign spins	Date - Date!	Electrical Foots codes	De John Constant	Repository for a Competition-Based
Electrical & Computer Engineering	Priya Bajaj	Electrical Engineering	Dr. John Copeland	Network Security Lab Design and Development of
				Biodegradable, Biocompatible
				Batteries to Power Active in Vivo
Electrical & Computer Engineering	William Cangelosi	Chemical and Biomolecular Eng	Mark Allen	Devices A Vestibular Rehabilitation Head
				Motion-Monitoring System: Signal
				Processing and User Interface
Electrical & Computer Engineering	Siddhartha Datta Roy	Electrical & Computer Engr	Pamela Bhatti	Development GUSTO: Gesture-based 3D User
				Authentication Technology with
Electrical & Computer Engineering	Penyen Chi	Computer Engineering	Seculk Uluagac	Biometric Features
				Effects of Processing Techniques to
Materials Science & Engineering	Robert Carson	Mechanical Engineering	Ken Gall	Improve Cellular Adhesion have on Mechanical Properties of PEEK
				Thin Films Made from Colloidal
				Antimony Tin Oxide Nanoparticles
Materials Science & Engineering	Abigail Halim	Materials Science & Engr	Rosario Gerhardt	for Transparent Conductive Applications
		0'		Aerodynamics of flexible flapping
Mechanical Engineering	Tsz Li	Mechanical Engineering	Alexander Alexeev	wings with ground effect
Mechanical Engineering	Katherine Polhemus	Mechanical Engineering	Alexander Alexeev	Modeling synthetic vesicles that can release and capture solutes
conumear Engineering		co.amear Engineering	, desarract Alexeev	resease and capture solutes
				Manipulation of Thermal
Mechanical Engineering	Nan Wei	Mechanical Engineering	Bo Feng	Conductivity Using Mechanical Strain Atomistic Modeling of Zirconium
Mechanical Engineering	Varija Agarwal	Nuclear & Radiological Engr	Chaitanya Deo	under Irradiation
		-1.5.	,. 200	Atomistic modeling of phases and
Mechanical Engineering	Elton Chen	Nuclear & Radiological Engr	Chaitanya Deo	interfaces in metallic Uranium
				Statistical Characterization of Weather Data for Building
Mechanical Engineering	Alisha Kasam	Mechanical Engineering	Christiaan Paredis	Simulation
				Investigating the Ability of
Mechanical Engineering	Bruce Berry	Nuclear & Radiological Engr	David Hu	Mosquitoes to Fly in Fog
Mechanical Engineering	David Kim	Mechanical Engineering	David Hu	The Effects of Dew Deposition on Mosquitoes
Mechanical Engineering		Biomedical Engineering	David Hu	The Hydrodynamic of Micturition
		0		Mosquito Flight: The Effect of Fog
Mechanical Engineering Mechanical Engineering		Polymer, Textile & Fiber Engr Biomedical Engineering	David Hu David Ku	Droplets on Haltere Function Thrombosis in Pediatric ECMO
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Mechanical Engineering	Lee Stokes	Mechanical Engineering	Minami Yoda	Experimental Studies of Helium- Cooled Divertors for Magnetic Fusion Reactors
Mechanical Engineering	Ravi Haksar	Mechanical Engineering	Raghuram Pucha	Structure Property Relations of Carbon Nanotubes for RVE Models
Mechanical Engineering	Ke Xiao	Mechanical Engineering	Steven Liang	Single-Grit Magnetoabrasion for Free Form Micro-Machining
				High-Speed Microfluidic Particle
Mechanical Engineering	Bruno Rego	Biomedical Engineering	Todd Sulchek	Sorting by Size Characterization of Osteoarthritis
Mechanical Engineering COS	Chelsea Fechter	Biomedical Engineering	Robert Guldberg	Progression in a Mouse Medial Meniscal Destabilization Model Using Contrast-Based Micro-CT
				A novel lower-limb orthosis
Applied Physiology	Jaemin Sung	Biomedical Engineering	Christopher Hovorka	enhances rather than reduces muscle activation during walking Examining Effect of Mutations of
				RNase H2 Subunits on Enzymatic Activity of RNase H2 in Presence and Absence of RNase H1 in
Biology	Lahari Shetty	Biology	Francesca Storici	Sacchromyces cerevisiae
Biology	Amrita Kaimal	Psychology	Gregory Gibson	The Facial Expression Project
Biology	Ashley Reavis	Biomedical Engineering	John McDonald	Transfection of Ovarian Cancer HEY Cells with Sec23A
				Analyzing Patterns of Gene
Biology	Agnes Ho	Biology	Terry Snell	Expression in Corals Under Exposure to Differential Sunscreen Treatments Tooth and Taste Bud Density in
Biology	Kristine Phillips	Biology	Todd Streelman	Malawi Cichlids
	·			Biomimetic Beta Hairpin Peptides: Prototypes for Artificial Solar Energy
Chemistry & Biochemistry	Jiby Yohannan	Biochemistry	Bridgette Barry	Conversion
Chemistry & Biochemistry	Kabir Dhada	Chemistry	L. Andrew Lyon	A Hybrid Bio-Synthetic Approach to New Hemostatic Agents
				Myocilin-OLF Structure Determination: Phase Solution of Myocilin-OLF via Crystallization of
Chemistry & Biochemistry Physics	Dana Freeman Alexander Tarr	Biochemistry Physics	Raquel Lieberman Alberto Fernandez-Nieves	Mutant K398R Drag Force in Viscoeleastic Fluids
Thysics	Alexander Turi	THYSICS	Alberto Terriandez Micves	Optical Trapping in a Complex
Physics	Zachery Enderson	Physics	Jennifer Curtis	Refractive Index Environment Effect of Sleep Deprivation on
Psychology	Haoxiang Yang	Industrial Engineering	Paul Verhaeghen	Attention: An EEG Investigation Augmented Reality Learning:
				Applying Optimal Augmentation Training for Visual Categorization of
Psychology	Gregory Hughes	Psychology	Richard Catrambone	Football Formations Understanding Younger and Older
Psychology	Shelby Long	Psychology	Tracy Mitzner	Adults' Trust in Service Robots
IAC				
International Affairs	Nicholas Barker	Int'l Affairs & Mod Lang	Lawrence Rubin	The Effect of Iran's Nuclear Armament on its Relationship with Non-State Affiliates and the Implications for US Policy in the Middle East
Literature, Communication, & Culture	Matthew Guzdial	Computational Media	Brian Magerko	Living Room Play
D. M. D. L.		D. M. D. C.	De Debesta Descri	Cognitive Heuristics in Science & Technology Policymaking and the Implications for Educating Future Participants in the Policymaking
Public Policy Travel	Jordan Lockwood	Public Policy	Dr. Roberta Berry	Process
History, Technology, & Society	lovce Sharps	History, Technology, & Society	John Tone	Informed Consent and the United States Army Yellow Fever Commission: A Pretense for Bioethics?
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History, Technology, & Society	Marcela Moreno	History, Technology, & Society	John Tone	Commission: A Pretense for Bioethics?
Biomedical Engineering	Kevin Kells	Biomedical Engineering	May Wang	LED Light Source for Fluorescence Endoscopy Using Quantum Dots
Ivan Allen College	Paul Zaitsev	Computational Media	Lisa Yaszek	Interdisciplinary Problem Solving Using Science Fiction Video Games
Literature, Communication and Culture	Keith Johnson	Computational Media (CM)	Lisa Yaszek	Science Fiction in Video Games and Educational Media Preparing Staff for ESL Tutoring at a
Literature, Communication and Culture	Allison Braden	International Affairs and Modern Language (IAML)	Karen Head	New Communication Center Preparing Staff for ESL Tutoring at a
Literature, Communication and Culture	Lauren Townsend	Science, Technology, and Culture (STC)	Karen Head	New Communication Center

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Materials Science and Engineering	Kwan Ho Ko	Mechanical Engineering (ME)	Seung Soon Jang	Effect of Temperature on Nanophase- segregation and Transport in Polysulfone-Based Anion Exchange Membrane Fuel Cell: Molecular Dynamics Simulation Approach
Materials Science and Engineering	Abigail Halim	Materials Science and Engineering (MSE)	Rosario Gerhardt	Thin Films Made from Colloidal Antimony Tin Oxide Nanoparticles for Transparent Conductive Applications
Materials Science and Engineering	Ryan Gussenhoven	Biochemistry (BCHM)	Rosario Gerhardt	Fabrication and Characterization of Antimony Tin Oxide Nanoparticle Networks Inside Polystyrene
Biomedical Engineering	Marc Plaisance	Biomedical Engineering (BMED)	Rene Olivares-Navarrete	Cellular Response to Surface Wettability Gradient on Microtextured Titanium Surfaces
Industrial and Systems Engineering	Manav Bhatia	Industrial Engineering (IE)	Chen Zhou	Energy Efficiency in Transportation - A Comparative Study between Delhi and Mumbai
Materials Science and Engineering	Hyemin Lee	Mechanical Engineering (ME)	SeungSoon Jang	Water Treatment by Using Simulation Derivation of Unbiased Anatomical
Biomedical Engineering	Frederick Damen	Biomedical Engineering (BMED)	Xiaoping Hu	and Diffusion MRI Templates of Primate Brains for Cross-Species Analysis
Biomedical Engineering	Jim Schwoebel	Biomedical Engineering (BMED)	Barbara Fasse	Systemizing Medical Device Entrepreneurship through Undergraduate Student Initiatives
Chemical Engineering	Reid Erwin	Chemical and Biomolecular Engineering (CHBE)	Yoshiaki Kawajiri	Modeling, Parameter Estimation, and Simulation of Non-Linear Simulated Moving Bed Chromatography
Chemical Engineering	Reid ETWIII	Crieffical and biomolecular Engineering (Crisc)	TOSHIAKI KAWAJIII	The role of the rare biosphere in degrading 2,4-dichlorophenoxyacetic acid and 3-
Civil and Environmental Engineering	Rajkumar Krishnan	Environmental Engineering (ENVE)	Konstantinos Konstantinidis	nitrotyrosine in Lake Lanier A sparse coding model of V1
Electrical and Computer Engineering	Allison Del Giorno	Electrical and Computer Engineering (ECE)	Chrisopher Rozell	produces surround suppression effects in response to natural scenes